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Abstract

In the distributed memory, elements in a sequence stored in various memories are input/output by a single instruction and processing and communication are unified. Between adjacent PMM 12, there are first packet transmission path 14 for transmitting a packet from a first to second PMM and a second packet transmission path 16 for transmitting a packet from a second to a first PMM. Each PMM has an information block consisting of a value list and a pointer sequence. The value list contains item values in the sequence of item value numbers corresponding to the item values belonging to particular items for expressing table-type data expressed as a sequence of records, each containing an item and an item value belonging to the item. The pointer sequence contains a pointer value for instructing the item number in the unique sequence set arrangement order. The information blocks held by the respective memories constitute a global information block.